

L 2334-66 EWT(1)/FCC GW
ACCESSION NR: AP5016289

UR/0362/65/001/006/0607/0614
551.521.32

AUTHOR: Faraponova, G. P.
44,55

50
38
B

TITLE: On the connection between the transparency of the free atmosphere and some meteorological characteristics

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 1, no. 6, 1965, 607-614

TOPIC TAGS: aerosol, atmospheric condensation, atmospheric humidity, atmospheric visibility

12,44,55

ABSTRACT: Certain relations are derived between the aerosol component of the attenuation index of individual layers of the atmosphere at a wavelength of 0.44μ and the humidity characteristics. At a relative humidity of 70--80 per cent the air becomes much less transparent, probably because of condensation and growth of the aerosol particles. This is particularly the case in sub-inversion layers. The aerosol optical density of the atmosphere above 6.5 km was found

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ACCESSION NR: AP5016289

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to depend on the structure of the tropopause. It was also observed that the transparency of the individual layers of the atmosphere changes during the course of the day in clear summer days, the transparency being worse in the morning than in the evening. During the morning hours, the transparency in the 0.5--3.5 km layer became somewhat worse because of the formation of haze layers. The atmosphere above 6.5 km changes more noticeably in transparency during the day. 'This work was performed in 1960 in the Tsentral'naya aerologicheskaya observatoriya (Central aerological Observatory) under the guidance of the late V. G. Kastrov, but was completed and written up at Institut fiziki atmosfery AN SSSR (Institute of Physics of the Atmosphere). The author thanks G. V. Rozenberg for an opportunity to finish the work and for the remarks made during its preparation for press.' Orig. art. has: 1 figure, 4 formulas, and 5 tables.

ASSOCIATION: Institut fiziki atmosfery akademiya nauk SSSR (Institute of Physics of the Atmosphere, Academy of Sciences, SSSR)

SUBMITTED: 11Nov64

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44.33

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NR REF SOV: 008

OTHER: 004

Bel
Card

2/2

First Aid

HUNGARY

BENEDEK, Judit, Dr; National Ambulance Service, Ambulance Station, Pecs, (chief physician: FARBÁKY, Ivan, Dr) (Országos Mentoszolgálat, Pécsi Mentőállomás).

"Electric Shock and Resuscitation."

Budapest, Orvosi Hetilap, Vol 107, No 43, 23 Oct 66, pages 2035-2038.

Abstract: [Author's Hungarian summary] The case of a young man is described who was resuscitated after a lethal shock from high tension electricity and was kept alive for 13 days. The author joins those who stress the importance of an expansion of teaching the use of modern resuscitation techniques, at the site of an accident, since the time factor is of decisive importance in the warding off of irreversible damage to the cerebral cortex. 15 Eastern European, 16 Western references.

FARBE, S.

Achievements of efficiency promoters. Avt. transp. 42 no.10:
20-21 0 '64. (MIRA 17:11)

Imidazole derivatives. XI. Condensation of phthalic anhydride with derivatives of benzimidazole. *By S. Efros, B. A. Porat-Koshits, and S. G. Farbenshtein. Leningrad Technol. Inst., Leningrad. Zhur Obshch. Khim. 11 (1953); C. C. A. 47, 1238^d.*—Only those derivs. of benzimidazole which possess an active substituent in the 2-position can react with α -C₆H₄(CO)₂O (I) in the presence of AlCl₃; among such substances are benzimidazolinone, 3-dimethylbenzimidazolinone, and the 2-dimethylamino-benzimidazole. They appear to react as cations. Heating 2.5 g. α -C₆H₄(NH)₂ HCl and 10 g. urea at 160° until the urea is volatilized, exg. with warm dil. NaOH and acidifying the ext. gave 88% 3-benzimidazolinone, m. 308° (from EtOH). This (8 g.) and 3.4 g. I stirred in 80 ml. C₆H₅Cl, and the mixt. treated with 10 g. AlCl₃, heated 3.5 hrs. to 90°, quenched in dil. HCl, and the solvent steam-distd. gave 3.57 g. 5-(α -carboxybenzoyl)-2-hydroxybenzimidazole, m. about 300°. This heated with concd. H₂SO₄ 1 hr. on a steam bath gave 100% corresponding anthraquinone deriv., C₁₆H₈O₄N₂, yellow, m. above 350° (from quinoline or pyridine). Similarly, 3,4-tolylendiamine and urea gave 70% 3-methylbenzimidazolinone, m. 292° (from EtOH), which with I and AlCl₃ similarly gave 64% 5-(α -carboxybenzoyl)-6-methyl-2-hydroxybenzimidazole, m. 294° (from AcOH), cyclized by H₂SO₄ to the corresponding anthraquinone deriv.,

yellow, m. above 350° (from quinoline). Methylation of benzimidazolinone with Me₂SO, in 25% NaOH at 60° gave after 1 hr. a 5-hr. refluxing period 2,3-dimethyl-1-benzimidazolinone, m. 140° (from pet. ether). This with I and AlCl₃ readily gave 5-(α -carboxybenzoyl)-2,3-dimethyl-1-benzimidazolinone, m. 268° (from dil. AcOH), cyclized in 100% yield to the corresponding anthraquinone deriv., m. about 360° (from EtOH). Heating 2-chlorobenzimidazole with Me₂NH at 100° in the presence of aq. NaOH gave 2,3-dimethyl-1-benzimidazolinone, m. 140° (from EtOH). 4-chlorobenzimidazole with I and AlCl₃ readily yielded purkian needles of 5-(α -carboxybenzoyl)-2-dimethylbenzimidazole, not characterized further but cyclized with H₂SO₄ to the corresponding anthraquinone deriv., orange-red.

HCl salt, yellow, m. above 360°. Heating 1.34 g. benzimidazolinone with 6.7 ml. POCl₃ and 2-3 drops HCl in a sealed tube 3 hrs. at 140-70° concn. *in vacuo*, and treatment with water gave no addn. of NH₄OH to the filtrate. 2.14 g. 3-chlorobenzimidazole, m. 212-15° from dil. EtOH. Benzimidazole does not condense with I in the presence of AlCl₃. G. M. Kosolapoff.

PARBER, A.

Mine timbering with the help of machinery. Mast.uglia 5 no.1:
12-14 Ja '56. (MLRA 9:5)
(Donets Basin--Mine timbering)(Coal mining machinery)

FARBER, A.M., dotsent; SIGALOV, I.V., inzhener; SVECHNIKOV, L.V.,
kandidat tekhnicheskikh nauk; MUZYCHENKO, G.I., inzhener.

Machine for eliminating spoilage and measuring fabrics automatically.
Leg.prom. 14 no.2:34-37 P '54. (MLRA 7:5)
(Textile machinery)

FARBER, A.M.

AID P - 5073

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 2/26

Authors : Gatkin, N. G., and A.M. Farber, Kandidats Tech. Sci.

Title : Noise analysis for determining the performance of machines and mechanisms.

Periodical : Vest. mash., 5, 6-7, My 1956

Abstract : The use of noise analyzers for evaluating the quality of machines and mechanisms is discussed. Two analyzers are described for recording wave spectra for low and high frequencies (2-25 cycles and 400-10000 cycles). These devices are recommended by the author on the basis of his experience. 5 illustrations. 3 references.

Institution : None

Submitted : No date

171

AUTHOR: Farber, A. M.

TITLE: Accuracy of Gear Cutting Machines and Methods of Improvement. (Tekhnologicheskaya tochnost' zuboreznykh stankov i sposoby yeye povysheniya)

PUB.DATA: Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo mashinostroitel'noy literatury, Kiev-Moscow, 1957, 192 pp., 10,000 copies.

ORIG.AGENCY: Not given

EDITORS: Gluvchinskiy, Ye. V., Cand. of Tech. Sciences; Ed. in Chief: Zalogin, N.S.; Reviewers: Gal'perin, Ye. I., Engineer; Lyapunov, M.A., Cand. of Tech. Sciences, Docent; Tech. Ed.: Rudenskiy, Ya. B.; Ed. of the Publ. House: Lenta, V. I., Engineer.

PURPOSE: This book is intended for engineers and technicians working in the field of gear manufacturing.

COVERAGE: The author discusses the sources of errors and describes methods for improving accuracy in gear manufacturing processes. He admits the complexity of the

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Accuracy of Gear Cutting Machines and Methods of (Cont.)

engineering problems connected with gear cutting and points out that a number of Soviet researchers and design and production engineers are working on the development of gear cutting machines and operating methods which will make for greater accuracy in gear manufacturing processes. The following personalities and their fields are mentioned: Bruyevich, I. G., Borodachev, I. A., general theory of precision; Kalashnikov, N.A., theory of practical mechanisms; Tayts, B.A., Genkin, M.D., Arkhangel'skiy, L.A., and Petrusevich, A.I., quality control standards. There are 66 references of which 54 are Soviet, 11 US, 1 German.

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Bibliography	
AVAILABLE: Library of Congress	
Card 5/5	

~~FABER, Alexander M.,~~ GAL'PERIN, Ye.I., inzhener, retsenzent;
LYAPUNOV, M.A., kandidat tekhnicheskikh nauk, dotsent, retsenzent;
GLUVCHINSKIY, Ye.V., kandidat tekhnicheskikh nauk, redaktor;
LEUTA, V.I., inzhener, redaktor izdatel'stva; RUDENSKIY, Ya.V.,
tekhnicheskii redaktor

[Engineering precision of gear cutting machines and means of
improving it] Tekhnologicheskaya tochnost' zuboreznykh stankov i
sposoby ee povysheniya. Kiev, Gos.nauchno-tekhn.izd-vo mashinostrit.
lit-ry. 1957. 190 p. (MIRA 10:10)
(Gear-cutting machines)

Farber, A.M.

ZABLONSKIY, Konstantin Ivanovich; ~~FARBER~~, A.M., kand.tekhn.nauk, dots.,
retsensent; STAROSEL'SKIY, A.A., kand.tekhn.nauk dots., red.;
LEUTA, V.I., inzh., red.izd-va; RUDENSKIY, Ya.V., tekhn.red.

[Calculation and design of gears] Raschet i konstruirovaniye
zubchatykh peredach. Kiev, Gos.nauchno-tekhn.izd-vo mashino-
stroit. lit-ry, 1958. 171 p. (MIRA 11:7)
(Gearing)

FAKES, A 41.

KHAYMOVICH, Ye.M., otv.red.; GUL'KO, M.M., red.; ZASLAVSKIY, S.Sh., red.;
LOPATA, A.Ya., red.; LYCH, M.M., red.; ORLIKOV, M.L., red.;
PAYNERMAN, I.D., red.; KHARAGORGIYEV, S.I., red.; V retsenziro-
vani i redaktirovani primali uchastiye: GREBEN', I.I.;
ZAMANSKIY, S.M.; IVAKHNENKO, A.G.; MESEZHNIKOV, V.L.; MOSENKIS,
M.G.; FARBER, A.M.. SOROKA, M.S., red.izd-va.

[Mechanization and automation in the machinery industry] Mekha-
nizatsiya i avtomatizatsiya v mashinostroyeni. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroyit.lit-ry, 1959. 286 p.

(MIRA 12:8)

1. Nauchno-tekhnicheskoye obshchestvo mashinostroyitel'noy
promyshlennosti. Kiyevskoye oblastnoye pravleniye.
(Automation) (Machinery industry)

100

YAKIMOVICH, V., inzh.; MAGONIN, P.; SHELEST, S.; OSHOVNIKOV, G.; KALACHEV, O., inzh.; DOKTORMAN, M.; ZHITYAYEV, S.; FARBER, A., inzh.

Suggestions of efficiency operators introduced at grain procurement stations and grain-milling enterprises. Muk.-elev. prom. 25. no. 4: 23-29 Ap '59. (MIRA 13:1)

1. Ministerstvo khleboproduktov Kazakhskoy SSSR (for Yakimovich).
 2. Chelyabinskoye upravleniye khleboproduktov (for Magonin).
 3. Glavnyy inzhener Novomoskovskogo zavoda po obrabotke semyan kukuruzy (for Shelest).
 4. Altayskoye upravleniye khleboproduktov (for Oshovnikov).
 5. Ministerstvo khleboproduktov BSSR (for Kalachev).
 6. Luganskoye upravleniye khleboproduktov (for Doktorman).
 7. Kuybyshevskoye upravleniye khleboproduktov (for Zhityayev).
- (Grain elevators) (Grain milling)

FARBER, A., inzh.

Mechanized grain handling at granaries of the No.5 Flour Mill in
Abramovka. Muk.-elev. prom. 25 no.4:29 Ap '59.

(MIRA 13:1)

1. Abramovskaya mel'nitsa No.5 Voronezhskogo oblastnogo upravleniya
khleboproduktov (for Farber).

(Abramovka--Grain-handling machinery)

TARTAKOVSKIY, Grigoriy Aleksandrovich; NIKOLAYEVA, T.A., red. izd-va;
FARBER, A.M., red.; SOROKINA, T.M., tekhn. red.

[New system for the construction of pipelines in the form of
suspended lines; theory, calculations, design] Novaya sistema
sooruzheniya truboprovodov v vide provislaiushchikh nitei;
teoriya, raschet, proektirovaniye. Moskva, Izd-vo M-va kommun.
khoz. RSFSR, 1961. 160 p. (MIRA 15:2)
(Pipelines)

BOLYCHEVSKAYA, G.N.; MARTYNOVA, Ye.A.; NOVIKOVA, M.V.; FARBER, A.M.;
CHEREpanOVA, N.S.; DUBOVA, R.Kh.; MASSAROVA, K.A., red.;
DZYUBAK, A.V., tekhn. red.

[National economy of Archangel Province; collection of
statistics] Narodnoe khoziaistvo Arkhangel'skoi oblasti;
statisticheskii sbornik. Vologda, Gosstatizdat, 1962. 158 p.
(MIRA 16:4)

1. Archangel (Province) Oblastnoye statisticheskoye upravle-
niye. 2. Statisticheskoye upravleniye Arkhangel'skoy oblasti
(for all except Dzyubak). 3. Nachal'nik Statisticheskogo
upravleniya Arkhangel'skoy oblasti (for Massarova).
(Archangel Province--Statistics)

FIMENOV, Aleksandr Nikolayevich. Primal uchastiye UTKIN, N.A.,
dots.; GONIK, A.A., kand. tekhn. nauk, retsenzent;
FARBER, A.V., inzh., retsenzent; LEBEDEV, N.I., red.

[Machines and mechanisms for lumber floating] Mashiny i
mekhanizmy na lesosplave. Izd.2., ispr. i dop. Moskva,
Lesnaia promyshlennost', 1965. 388 p. (MIRA 19:1)

PERSIYANOV, A., inzh.; FABER, B., inzh.; POLINKOVSKAYA, A., kand.tekhn.nauk

The quality of keramzit "sand" is improving. Na stroi. Ros. 3 no.2:
26-27 F '62. (MIRA 16:2)

(Keramzit)

FARBER, B. D.

104-3-26/45

AUTHOR: Kofman, R.D., Farber, B.D. and Tsukerman, P.V., Engineers.

TITLE: Trestle-type double cantilever crane type K2K-20/3 π .
(Kozlovyy dvukhkonsol'nyy kran K2K-20/3g)

PERIODICAL: "Elektricheskiy Stantsii" (Power Stations), 1957,
Vol. 28, No.3, pp. 72 - 74 (U.S.S.R.)

ABSTRACT: Most structural and erection areas of power stations are provided with travelling bridge cranes for loading and unloading work and for assembly of parts of the boilers. Cranes type K 202 that have been used in the past have a span of 20 m and can lift 20 tons and the span can be increased to 26 and 32 m if the load is reduced to 15 and 12 tons, respectively. Additional parts have been designed for this crane so that it can lift the full 20 tons over a span of 32 m - however, all these types of crane can only serve a narrow area. Therefore, a new type of crane has been designed which can use either a 20 ton hook or a 3 m³ grab. The span between supports is 32 m and the total travel of the trolley is 49 m wide. If railway and crane tracks are subtracted the useful span is 42 m. This great width makes it possible greatly to shorten the length of the assembly area and of associated railway tracks, which can be very important. Directions are given

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104-3-26/45
Trestle-type double cantilever crane type K2K-20/3r, (Cont.)
for assembly of the crane and its protective equipment is
described.

There are 2 figures.

AVAILABLE: Library of Congress

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FARBER, B.S.; SHCHERBAKOV, P.Ye.

Making keramsit using equipment manufactured in series for building-ceramics plants. Stroi. mat. 6 no.12:25-26 D '60. (MIRA 13:11)

1. Glavnyy spetsialist Giproneftestroya (for Farber). 2. Glavnyy inzhener Kryashskogo keramicheskogo kombinata (for Shcherbakov).
(Building materials industry--Equipment and supplies)

FARBBER, B.Ye.

Capacity for work in hypertension; current observations in industry. Terap.arkh.27 no.3:15-19 '55. (MLRA 8:9)

1. Is Rostovskogo-na-Donu filiala (dir.-kandidat meditsinskikh nauk, S.I. Ribakha) Tsentral'nogo instituta eksperisy trudo-sposobnosti i organizatsii truda invalidov.

(HYPERTENSION, physiology,
working capacity)

(WORK,
working capacity in hypertension)

USSR/Medicine - Electrophysiology Sep/Oct 51
of the Optic Nerve

"Electrophysiological Changes Apparent From Introduction of Perielectrotonics in the Peripheral Ends of the Optic Analyzer," D. A. Farber, Lab of Physiol Inst of Neurosurg imeni N. N. Burdenko, Acad Med Sci USSR

"Vop. Neyrokhirurg," No 5, pp 21-26

A focus of constant irritation to the optic nerve with perielectrotonic effects on the retina changes the functional conditions of the retina and shows up on the electroretinogram as a curve of spontaneous rhythmic action. The changes in the development of

the elec action [potential] of the retina match the magnitude of parabiosis of the nerve. According to I. P. Rusinov, the appearance of a synchronized rhythm in the central nervous system depends upon a certain level of functional motility when the cells are interrelated by way of local spreading of the irritation. It is to be expected that these rules also apply to the retina which approximates by its morphological properties the central nervous system. A further strengthening of the conditions of parabiosis of the retina leads, in the nerve, to disturbance of the rhythm and a predominantly lower electrotonic potential. Therefore the action of the spontaneous rhythm relates only to pos functional condition of the retina. We conclude that in diseases of the optic nerve, due to pressure by tumors, or scar formation, use of the electroretinogram is of diagnostic value.

FARBER, D. A.

198R61

FARBER, D.A.

Effect of parabolic focus in the optic nerve on changes of electrical activity of the retina. *Fisiol. zh. SSSR* 38 no.3:303-311 May-June 1952.
(CJML 23:2)

1. Laboratory of Physiology of the Institute of Neurosurgery imeni Academician N. N. Burdenko of the Academy of Medical Sciences USSR.

RAISER, D. A.

"Electrical Activity of the Retina in Presence of a Focus of Steady
Irritation in the Optic Nerve at the Cortical End of the Visual Analyzer."
Genl Biol Sci, Inst of Neurosurgery, Acad Med Sci, USSR, Moscow, 1953.
(IzdBiol, No 1, Sep 54)

SO: Sum 432, 22 Mar 55

NOVIKOVA, L.A.; FARBER, D.A.

Electrophysiologic research on the connection of the auditory and visual analysers in the rabbit. *Fiziol.shur.* 42 no.5:341-350 My '56.
(MIRA 9:11)

1. Laboratoriya fiziologii i patologii nervnoy sistemy Instituta neyrokhirurgii AMN SSSR, Moskva.

(CEREBRAL CORTEX, physiol.

dominant reaction by visual stimulation & reinforcement
by auditory stimulation, EEG)

(ELECTROENCEPHALOGRAPHY

in dominant reaction by visual stimulation & reinforcement
by auditory stimulation)

NOVIKOVA, L.A.; FAEBER, D.A.

Study of synchronized rhythms in the cortex and the reticular formation of rabbit brain appearing during the orientation reaction. Fisiol.skur. 45 no.11:1293-1303 N '59. (MIRA 13:5)

1. From the Research Institute of Defectology, R.S.F.S.R. Academy of Paedagogical Science, and Institute of Obstetrics and Gynaecology, Moscow.

(CEREBRAL CORTEX physiol.)

(BRAIN STEM physiol.)

(ORIENTATION physiol.)

FARBER, D. A. (Moskva)

O roli retikulyarnoy formatsii stvola v reaktsii usvoeniya ritma svetovykh mel'kaniy

report submitted for the First Moscow Conference on Reticular Formation,
Moscow, 22-26 March 1960.

IVANOV, I.P.; FARBER, D.A.

Electrical activity of the cerebral cortex in pregnancies complicated by late toxemias. Akush. i gin. 38 no.5:67-71 S-0 '62. (MIRA 17:11)

1. Iz otdeleniya patologii beremennosti (zav. - dotsent Ye.P. Romanova) i fiziologicheskoy laboratorii (zav. - prof. A.O. Dolin) Nauchno-issledovatel'skogo instituta akusherstva i ginekologii (dir. - prof. O.V. Makeyeva) Ministerstva zdorovookhraneniya RSFSR.

GOLUBEVA, Ye.L.; YELIZAROVA. I.P.; FARBER, D.A.

State of the central nervous system in newborn infants following
asphyxia during labor. Akush. i gin. no.6:25-29 N-D '63.

(MIRA 17:12)

1. Iz Instituta akusherstva i ginekologii (direktor prof. O.V.
Makeyeva) Ministerstva zdravookhraneniya SSSR.

PARSON, E.A.

Generalized responses and evoked potentials in the EEG of newborn infants. Fiziol.zhur. 50 no.6:697-704 Je '74.

(MIRA 18:2)

1. Fiziologicheskaya laboratoriya Nauchno-Issledovatel'skogo instituta akusherstva i ginekologii Ministerstva zdravookhraneniya SSSR, Moskva.

DOLIN, A.O. (Moskva); FARBER, D.A. (Moskva); ZMANOVSKIY, Yu.F. (Moskva)

Determination of the lability of nervous processes based on the
reaction of assimilating the rhythm of light flickering. Zhur.
vys. nerv. deiat. 15 no.2:381-392 Mr-Apr '65.

(MIRA 18:5)

EPSHTEYN, R.B.; FARBER, E.L.; GUTENEVA, L.Z.; SHMUYLOVICH, D.S.

Vanillin from sulfate liquors. Bum.prom. 37 no.1:20 Ja '62.
(MIRA 15:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut pishchevoy
promyshlennosti.

(Woodpulp)
(Vanillin)

L 63456-65 EPF(n)-2/EPA(s)-2/ENT(m)/ENP(b)/ENP(t) WW/JD/JG

ACCESSION NR: AR5017410

UR/0137/65/000/006/V040/V040

SOURCE: Ref. zh. Metallurgiya, Abs. 6V260

AUTHOR: Farber, E. V.; Samsonov, V. I.

TITLE: Heat transfer between an ingot and crystallizer when melting with a consumable electrode

CITED SOURCE: Elektrotermiya. Nauchno-tekhn. sb., vyp. 39, 1964, 24-27

TOPIC TAGS: heat transfer, ingot crystallization, vacuum melting, metal melting, helium, arc furnace

TRANSLATION: The heat transfer coefficient from an ingot to a crystallizer in an arc furnace with a consumable electrode has been determined. For vacuum melting this coefficient is $100 \text{ kcal/m}^2 \text{ hr degree}$, and for melting in a helium atmosphere it is $200 \text{ kcal/m}^2 \text{ hr degree}$. It was established by calculation that an increase in the degree of cooling of the ingot above a certain critical value of the Biot number has practically no effect at the bottom of the bath of liquid metal. For this reason, this is all the more expedient, since with an increase in the Biot

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ACCESSION NR: AR5017410

number the temperature of the ingot surface decreases significantly, as a result of which favorable conditions are created for the formation of cracks. On the other hand, a decrease in the value of the Biot number leads to an infinite increase in the depth of the bath. Orig. art. has: 5 figures, 2 tables. G. Lyubimova

SUB CODE: MM

ENCL: 00

Card 2/2

E 22955-65 EWT(m)/EWP(t)/EWP(b) JD

ACCESSION NR: AP5003494

S/0148/65/000/001/0037/0042

AUTHOR: Samsonov, V.I.; Farber, E.V.

TITLE: Temperature field of an ingot during fusion with electrode consumption

SOURCE: IVUZ. Chernaya metallurgiya, no. 1, 1965, 37-42

TOPIC TAGS: ingot, ingot formation, electrode smelting, ingot meniscus, ingot temperature field

ABSTRACT: Fusion in arc ovens with electrode consumption is not fully understood as far as the thermal processes accompanying the ingot formation from the smelt are concerned. Knowledge of the temperature field of the hardening ingot is, however, necessary for the development of the smelting technology from the viewpoint of the macrostructure of metals, distribution of the alloy component, mechanical properties, etc. To elucidate this question, the authors developed an analytic computational method for the calculation of the temperature field in the vertex part of the ingot based on the experimentally known fact that, from a certain instant of time, the shape and dimensions of the liquid meniscus remain unaltered. This quasi-stationary state is examined on a cylindrical ingot using moving coordinates connected to its upper face, and the discussion starts from the non-stationary Fourier equation for the nonstationary temperature field in the absence of

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L 29955-65

ACCESSION NR: AP5003494

internal sources. The results of the calculation show that an increase in the heat transfer coefficient at the surface of the ingot may be achieved only to a certain limit by reducing the radius of the meniscus, the limit depending on the heat conductivity of the material and the radius of the ingot. This conclusion was confirmed experimentally using a 345 mm diameter ingot. Other calculations show that the kinetics of hardening are easier to control in the case of ingots of rectangular cross section, and that a reduction in cooling intensity significantly increases the dimensions of the liquid bath. "Bachelor of Engineering Sciences I. B. Kumanin supervised the work." Orig. art. has: 23 formulas and 5 figures.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow steel and alloys institute)

SUBMITTED: 14May64

ENCL: 00

SUB CODE: MM

NO REF SOV: 006

OTHER: 000

Card 2/2

L 05902-67 EWP(h)/EWP(h)/EWP(d)/EWP(m)/EWP(v)/EWP(w)/EWP(x)/EWP(y)/EWP(z)/EWP(1)/EWP(2)/EWP(3)/EWP(4)/EWP(5)/EWP(6)/EWP(7)/EWP(8)/EWP(9)/EWP(10)/EWP(11)/EWP(12)/EWP(13)/EWP(14)/EWP(15)/EWP(16)/EWP(17)/EWP(18)/EWP(19)/EWP(20)/EWP(21)/EWP(22)/EWP(23)/EWP(24)/EWP(25)/EWP(26)/EWP(27)/EWP(28)/EWP(29)/EWP(30)/EWP(31)/EWP(32)/EWP(33)/EWP(34)/EWP(35)/EWP(36)/EWP(37)/EWP(38)/EWP(39)/EWP(40)/EWP(41)/EWP(42)/EWP(43)/EWP(44)/EWP(45)/EWP(46)/EWP(47)/EWP(48)/EWP(49)/EWP(50)/EWP(51)/EWP(52)/EWP(53)/EWP(54)/EWP(55)/EWP(56)/EWP(57)/EWP(58)/EWP(59)/EWP(60)/EWP(61)/EWP(62)/EWP(63)/EWP(64)/EWP(65)/EWP(66)/EWP(67)/EWP(68)/EWP(69)/EWP(70)/EWP(71)/EWP(72)/EWP(73)/EWP(74)/EWP(75)/EWP(76)/EWP(77)/EWP(78)/EWP(79)/EWP(80)/EWP(81)/EWP(82)/EWP(83)/EWP(84)/EWP(85)/EWP(86)/EWP(87)/EWP(88)/EWP(89)/EWP(90)/EWP(91)/EWP(92)/EWP(93)/EWP(94)/EWP(95)/EWP(96)/EWP(97)/EWP(98)/EWP(99)/EWP(100)/EWP(101)/EWP(102)/EWP(103)/EWP(104)/EWP(105)/EWP(106)/EWP(107)/EWP(108)/EWP(109)/EWP(110)/EWP(111)/EWP(112)/EWP(113)/EWP(114)/EWP(115)/EWP(116)/EWP(117)/EWP(118)/EWP(119)/EWP(120)/EWP(121)/EWP(122)/EWP(123)/EWP(124)/EWP(125)/EWP(126)/EWP(127)/EWP(128)/EWP(129)/EWP(130)/EWP(131)/EWP(132)/EWP(133)/EWP(134)/EWP(135)/EWP(136)/EWP(137)/EWP(138)/EWP(139)/EWP(140)/EWP(141)/EWP(142)/EWP(143)/EWP(144)/EWP(145)/EWP(146)/EWP(147)/EWP(148)/EWP(149)/EWP(150)/EWP(151)/EWP(152)/EWP(153)/EWP(154)/EWP(155)/EWP(156)/EWP(157)/EWP(158)/EWP(159)/EWP(160)/EWP(161)/EWP(162)/EWP(163)/EWP(164)/EWP(165)/EWP(166)/EWP(167)/EWP(168)/EWP(169)/EWP(170)/EWP(171)/EWP(172)/EWP(173)/EWP(174)/EWP(175)/EWP(176)/EWP(177)/EWP(178)/EWP(179)/EWP(180)/EWP(181)/EWP(182)/EWP(183)/EWP(184)/EWP(185)/EWP(186)/EWP(187)/EWP(188)/EWP(189)/EWP(190)/EWP(191)/EWP(192)/EWP(193)/EWP(194)/EWP(195)/EWP(196)/EWP(197)/EWP(198)/EWP(199)/EWP(200)/EWP(201)/EWP(202)/EWP(203)/EWP(204)/EWP(205)/EWP(206)/EWP(207)/EWP(208)/EWP(209)/EWP(210)/EWP(211)/EWP(212)/EWP(213)/EWP(214)/EWP(215)/EWP(216)/EWP(217)/EWP(218)/EWP(219)/EWP(220)/EWP(221)/EWP(222)/EWP(223)/EWP(224)/EWP(225)/EWP(226)/EWP(227)/EWP(228)/EWP(229)/EWP(230)/EWP(231)/EWP(232)/EWP(233)/EWP(234)/EWP(235)/EWP(236)/EWP(237)/EWP(238)/EWP(239)/EWP(240)/EWP(241)/EWP(242)/EWP(243)/EWP(244)/EWP(245)/EWP(246)/EWP(247)/EWP(248)/EWP(249)/EWP(250)/EWP(251)/EWP(252)/EWP(253)/EWP(254)/EWP(255)/EWP(256)/EWP(257)/EWP(258)/EWP(259)/EWP(260)/EWP(261)/EWP(262)/EWP(263)/EWP(264)/EWP(265)/EWP(266)/EWP(267)/EWP(268)/EWP(269)/EWP(270)/EWP(271)/EWP(272)/EWP(273)/EWP(274)/EWP(275)/EWP(276)/EWP(277)/EWP(278)/EWP(279)/EWP(280)/EWP(281)/EWP(282)/EWP(283)/EWP(284)/EWP(285)/EWP(286)/EWP(287)/EWP(288)/EWP(289)/EWP(290)/EWP(291)/EWP(292)/EWP(293)/EWP(294)/EWP(295)/EWP(296)/EWP(297)/EWP(298)/EWP(299)/EWP(300)/EWP(301)/EWP(302)/EWP(303)/EWP(304)/EWP(305)/EWP(306)/EWP(307)/EWP(308)/EWP(309)/EWP(310)/EWP(311)/EWP(312)/EWP(313)/EWP(314)/EWP(315)/EWP(316)/EWP(317)/EWP(318)/EWP(319)/EWP(320)/EWP(321)/EWP(322)/EWP(323)/EWP(324)/EWP(325)/EWP(326)/EWP(327)/EWP(328)/EWP(329)/EWP(330)/EWP(331)/EWP(332)/EWP(333)/EWP(334)/EWP(335)/EWP(336)/EWP(337)/EWP(338)/EWP(339)/EWP(340)/EWP(341)/EWP(342)/EWP(343)/EWP(344)/EWP(345)/EWP(346)/EWP(347)/EWP(348)/EWP(349)/EWP(350)/EWP(351)/EWP(352)/EWP(353)/EWP(354)/EWP(355)/EWP(356)/EWP(357)/EWP(358)/EWP(359)/EWP(360)/EWP(361)/EWP(362)/EWP(363)/EWP(364)/EWP(365)/EWP(366)/EWP(367)/EWP(368)/EWP(369)/EWP(370)/EWP(371)/EWP(372)/EWP(373)/EWP(374)/EWP(375)/EWP(376)/EWP(377)/EWP(378)/EWP(379)/EWP(380)/EWP(381)/EWP(382)/EWP(383)/EWP(384)/EWP(385)/EWP(386)/EWP(387)/EWP(388)/EWP(389)/EWP(390)/EWP(391)/EWP(392)/EWP(393)/EWP(394)/EWP(395)/EWP(396)/EWP(397)/EWP(398)/EWP(399)/EWP(400)/EWP(401)/EWP(402)/EWP(403)/EWP(404)/EWP(405)/EWP(406)/EWP(407)/EWP(408)/EWP(409)/EWP(410)/EWP(411)/EWP(412)/EWP(413)/EWP(414)/EWP(415)/EWP(416)/EWP(417)/EWP(418)/EWP(419)/EWP(420)/EWP(421)/EWP(422)/EWP(423)/EWP(424)/EWP(425)/EWP(426)/EWP(427)/EWP(428)/EWP(429)/EWP(430)/EWP(431)/EWP(432)/EWP(433)/EWP(434)/EWP(435)/EWP(436)/EWP(437)/EWP(438)/EWP(439)/EWP(440)/EWP(441)/EWP(442)/EWP(443)/EWP(444)/EWP(445)/EWP(446)/EWP(447)/EWP(448)/EWP(449)/EWP(450)/EWP(451)/EWP(452)/EWP(453)/EWP(454)/EWP(455)/EWP(456)/EWP(457)/EWP(458)/EWP(459)/EWP(460)/EWP(461)/EWP(462)/EWP(463)/EWP(464)/EWP(465)/EWP(466)/EWP(467)/EWP(468)/EWP(469)/EWP(470)/EWP(471)/EWP(472)/EWP(473)/EWP(474)/EWP(475)/EWP(476)/EWP(477)/EWP(478)/EWP(479)/EWP(480)/EWP(481)/EWP(482)/EWP(483)/EWP(484)/EWP(485)/EWP(486)/EWP(487)/EWP(488)/EWP(489)/EWP(490)/EWP(491)/EWP(492)/EWP(493)/EWP(494)/EWP(495)/EWP(496)/EWP(497)/EWP(498)/EWP(499)/EWP(500)/EWP(501)/EWP(502)/EWP(503)/EWP(504)/EWP(505)/EWP(506)/EWP(507)/EWP(508)/EWP(509)/EWP(510)/EWP(511)/EWP(512)/EWP(513)/EWP(514)/EWP(515)/EWP(516)/EWP(517)/EWP(518)/EWP(519)/EWP(520)/EWP(521)/EWP(522)/EWP(523)/EWP(524)/EWP(525)/EWP(526)/EWP(527)/EWP(528)/EWP(529)/EWP(530)/EWP(531)/EWP(532)/EWP(533)/EWP(534)/EWP(535)/EWP(536)/EWP(537)/EWP(538)/EWP(539)/EWP(540)/EWP(541)/EWP(542)/EWP(543)/EWP(544)/EWP(545)/EWP(546)/EWP(547)/EWP(548)/EWP(549)/EWP(550)/EWP(551)/EWP(552)/EWP(553)/EWP(554)/EWP(555)/EWP(556)/EWP(557)/EWP(558)/EWP(559)/EWP(560)/EWP(5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ACC NR: AR6Q17480 SOURCE CODE: UR/Q137/66/000/001/BQ14/BQ14

AUTHOR: Farber, E. V.; Khotin, V. A.

TITLE: On the relationship between the power of an electron-beam melter and the size of the liquid bath during slag melting 14

SOURCE: Ref. zh. Metallurgiya, Abs. 1B86 32

REF SOURCE: Elektrotermiya. Nauchno-tekhn. sb., vyp. 45, 1965, 50-54 12

TOPIC TAGS: slag, electroslag melting, electron beam melting 14

ABSTRACT: An attempt is made to establish an analytical relationship between the basic process parameters, the power of the installation and the volume of the liquid bath for various conditions of heat exchange between slag of a given geometry and the water-cooled crucible. The effect which the intensity of this heat exchange has on the size of the liquid bath is determined. The optimum values for the Biot number are roughly between 0.5 and 1.0. An increase in the height of the automatic ladle increases the volume of the liquid bath and the slag utilization factor. The quantity of accumulated melt may be effectively increased by enlarging the diameter of the automatic ladle. The power density depends on the ladle geometry and the heat exchange conditions on its surface. Slag melting at Biot numbers greater than 1 is advisable from the thermal engineering standpoint. 5 illustrations. V. Pryanikova. [Translation of abstract]

SUB CODE: 13 KH

Card 1/1

UDC: 669:621.365

FARBER, F.Ye. (Moskva)

From experience in the study of the subject "Properties of Gases" in
a school for working youth. Fiz. v shkole 20 no.5:96-99 S-O '60.
(MIRA 13:11)

(Gases--Properties)

FARBER, F.Ye. (Moskva)

Using the papers of students of the schools for working youth in
teaching physics. Fiz.v shkole 21 no.3:80-81 My-Je '61.
(MIRA 14:8)

(Physics—Study and teaching)

CA FARBER, G.

11c

New isolated chromogenic microorganism with a high oxidative potency. *Cyanoecoccus chromogenicus* (Mykolas-Praha, Czechoslovakia). *Sbornik Ceskoslov. Akad. Zemedelst. 22*, 355-61 (1951).—A blue bacterium was isolated from fermentations from which a pigment definitely identified as pyocyanine was recovered by CHCl₃ extn. It fermented a 15% Ca D-glucuronate medium to Ca 2-keto-D-glucuronate quantitatively in 20 hrs. It is strongly oxidizing to Ca L-glutamate which is fermented quantitatively to Ca 2-keto-L-glutamate (provitamin C). It is a small nonmotile coccus without flagella, 0.5 to 0.8 microns in diam. It differs from *Pseudomonas aeruginosa* morphologically and biochemically. It has an odor of "fresh glue"; the optimum temp. is 20 to 28°. It does not denitrify and ferments D-methylol nucleotides. It oxidizes the 2nd alc. group of aldon acids (Ca D-glucuronate, Ca L-glutamate, and D-ribonate) very rapidly but does not affect aldoes. Protein (meat, milk, and gelatin) is also not affected. The activity is increased by the addition of (NH₄)₂HPO₄, K₂HPO₄, and MgSO₄·7H₂O. The author proposes the name "*Cyanoecoccus chromogenicus*." J. M.

1951

FARBER, G.

VONDROVA-HOVYZOVA, O.; FARBER, G.; LUKSIK, B.

Improvement of production of Ca-d-2-ketogluconate by utilisation
of fermentation of bacterial dissociation. Chekh. biol. 3 no.2:
108-118 Apr 54.

1. Institut biologii ChSAN, sobraniye kul'tur, Praga.

(GLUCONATES, preparation of,

*keto gluconate of calcium, prod. with bact. disseciation)

(BACTERIA,

*dissociation, in prep. of calcium keto gluconate)

Farber G.

A new method for the isolation of dihydroxyacetone and L-sorbose from fermentation liquors. J. Liehster, B. Lukšik, G. Farber, and V. Svoboda (Čsl. akad. věd, Prague) *Chem. Zvesti* 50, 395-7 (1956). Dihydroxyacetone (I) was isolated from fermentation liquors by the simplified Neuberg procedure (C.A. 29, 8040^a) or by using ion exchangers, L-sorbose (II) by using ion exchangers. A soln. (23 l.) contg. 5% glycerol fermented to 95.6% was filtered with activated C and kieselguhr, the filtrate was evapd. in *vacuo* at 21° to a 75% sirup, the sirup was extd. at 20° with 20 l. Me₂CO, the acetone ext. was filtered over C and evapd. in *vacuo* at 18° to a sirup contg. 85% solid substance, the sirup was dild. with 200 ml. abs. EtOH, seeded with I, allowed to stand 3 days in the icebox, and then dild. with 200 ml. EtOH. The crystals of I were filtered with suction (720 g.); the filtrate was evapd. and worked up similarly to give addnl. 87 g. I. Total yield of I, m. 70-2°, was 807 g. (77%). The crude I was dissolved in H₂O, filtered with activated C, and evapd. to a 80% sirup; this was dild. with EtOH and placed in an icebox 2 days; the crystals (760 g. 71%) were filtered and dried in *vacuo*, m.p. 78-80°. Another method of isolation started with 20 l. 5% glycerol substrate. The soln. was filtered over activated C and kiesel-

guhr, then passed through an 80-cm. column contg. 3 l. of Wofatite KS (III) and through a column with Wofatite MD (IV) (2 hrs. each). The ion exchangers were washed with 20 l. distd. H₂O at 39°, and the soln. was evapd. at 17-20° in *vacuo* to a 75% sirup; this was seeded with I, allowed to stand 2 days in the icebox, dild. successively with 400 ml. EtOH, the crystals were filtered and washed with 200 ml. EtOH (648 g. I), and the mother liquors evapd. to give addnl. 148 g. I. Total yield of I was 796 g. (79.6%), m.p. 91-3°. Fermentation of 15% L-sorbitol with *Acetobacter suboxydans* at 30°, 30 hrs., filtration of the soln. fermented to 95% over activated C and kieselguhr, passing it at 40° through a 30-cm. column contg. 1.6 l. III and another column contg. IV, washing the ion exchangers with 4 l. H₂O, evapg. the soln. in *vacuo*, allowing it to stand in the icebox, filtering the crystals, and washing them with H₂O and MeOH gave 1304 g. (97%) II, m. 157-9°, $[\alpha]_D^{20} + 93.2^\circ$.

M. Hudlický

FARBER, GERHARD.

Symbiosy a metabiosy nahnileho ovoce. Praha, Narodni museum, 1957. 71 p.

(Prague. Narodni museum. Sbornik B: Prirodovedny, v. 13, no. 1-2)

[Symbioses and metasymbioses in rotten fruit. In German with Czech summary. illus.,

bibl., diags., footnotes, tables. Gerhard Farber, Olga Vondrova, Eva

Streiblova: Morphologic and metabolic properties of zones of microbial

macrocolonies (bact.) on solid media. In German with Czech summary. illus., bibl.,

diags., tables. Bohuslav Ruzicka, Ferdinand Prantl: Some imperfectly

known "aviculoid" pelecypoda from the Silurian and Devonian of Bohemia. IN

English with Czech summary. illus., bibl.]

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

CZECHOSLOVAKIA / Microbiology. General Microbiology.
Growth and Development of the Microbe
Population.

F

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19408

Author : Faerber, G.; Vondrova, O.; Streiblova, E.
Inst : Not given

Title : Concerning Morphological and Biochemical
Peculiarities in the Formation of Zones in
Microbe Macrocolonies

Orig Pub : Sbor. Narodn. musea Praze, 1957, B13, No 1-2,
24-52

Abstract : The study of macrocolonies of various species
of bacteria in different solid media of
various agar concentrations indicates that
clearly defined zones in them are often
developed in 24 hours. The zones are

Card 1/3

CZECHOSLOVAKIA / Microbiology. General Microbiology.
Growth and Development of the Microbe
Population.

F

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19408

particularly clearly established in 48-72 hours of cultivation in media with an agar concentration of 2.5%. The ability to form especially sharp zones is established by one strain of *Pseudomonas "cythro"*, which in all these media formed macrocolonies in 24 hours; in these macrocolonies, 3 clearly circumscribed zones stood out in 48-72 hours. Sharp differences in biochemical activity in the subcultures obtained from various zones of the colonies of the *Pseudomonas "cythro"*, developed; particularly, the greatest activity of fermentation in various hydrocarbons is displayed by the culture originating in the

Card 2/3

CZECHOSLOVAKIA / Microbiology. General Microbiology.
Growth and Development of the Microbe
Population.

F

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19408

zone designated "Vicin", which formed at the edge of the colony in the form of a rising shaft. These differences in biochemical activity in the cultures, developed in various parts of the colony, proved to be fixed hereditarily. On the basis of the results obtained, the authors worked out a method of a "two-phase" selection of the strains having industrial value. -- G. P. Kalina

Card 3/3

FARBER, G.; LIEBSTER, J.; VONDROVA, O.

"Quantitative fermentation of Ca-2-keto-D-gluconate in a mixture of Ca-D-gluconate and Ca-L-idonate by means of Pseudomonas chromospirans Farber"

Ceskoslovenska Mikrobiologie. Praha, Czechoslovakia. Vol. 3, no. 4, 1958

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 7, July 59, Unclass

FARE-6 - 6

SOV/95-59-2-4/13

AUTHORS: Farber, G.A. and Grosman, S.V., Engineers

TITLE: From the Experience Gained in Planning Electro-Draining Protection of Pipelines in Moscow (Iz opyta proyektirovaniya elektrodrenazhnoy zashchity truboprovodov v Moskve)

PERIODICAL: Stroitel'stvo truboprovodov, 1959, ⁴Nr 2, pp 9-10 (USSR)

ABSTRACT: The effect of stray currents causing corrosion to metal pipelines is a serious menace to the underground installations of a city. Diagram Nr 1 shows the circulation of stray currents under an electrified RR track affecting an underground pipeline. Experience tends to show that drainage protection is the most effective in steady anode zones. This kind of protection consists in draining the stray currents in pipelines by a special device and a drainage cable and returning them to the source of their origin. On the basis of experience gained, it has been accepted to observe the following sequence of experimental work in planning an electro-draining protection: On the basis of the analysis of electrometric investigations the exact location of the draining point on the pipeline is determined as well as the point of connection of the draining cable to the return current net work of electrified rails. A trial installation of electro-drainage is then set up, which permits to de-

Card 1/2

SOV/55-59-2-4/15

From the Experience Gained in Planning Electro-Draining Protection of Pipelines in Moscow

termine the best working conditions and the required cross section of the draining cable. After a certain amount of practice, the amount of experimental work can be cut down considerably; thus a permanent installation can be set up immediately after the analysis of electromagnetic investigations is completed, cutting out the trial installation altogether.

There are: 1 diagram and 3 graphs.

Card 2/2

FARBER, G.L. (Murmansk)

Case of rupture of the aortic arch in closed trauma of the
thorax. Khirurgiia 37 no.5:116 My '61. (MIRA 14:5)
(CHEST—WOUNDS AND INJURIES) (AORTA—RUPTURE)

FARHER, I. L.
FIGIN, R.N., kand. tekhn. nauk; PONNIK, Yu.A.; FARHER, I.L., doktor tekhn.nauk

Using the method of electrohydrodynamic analogies to investigate
certain problems of underground coal gasification. Podzem. gaz. ugl.
no.4:46-49 '58. (MIRA 11:12)

1. Institut goryuchikh iskopayemykh im. G.M. Krzhizhanevskogo AN SSSR.
(Coal gasification, Underground--Models)

FARBBER, I.M., doroshnyy master

Improve the administrative structure of the highway maintenance service. Avt.dor. 23 no.7:15 J1 '60.
(MIRA 13:7)

1. Doroshno-ekspluatatsionnyy uchastok no.265.
(Roads--Maintenance and repair)

FARBER, L.D.; BENDEROVICH, I.M.

Washing of returned glass containers with a continuous water
and steam jet. Kons. 1 ov. prom. 14 no.10:24-25 0 '59.
(MIRA 12:12)

1.Stalingradskiy konservnyy zavod.
(Canning and preserving--Equipment and supplies)

I 7028-66

ACC NR: AP5026830

SOURCE CODE: UR/0286/65/000/017/0116/0116

AUTHOR: Lemsar'in'ye, K. P.; Drobny, B. V.; Chebalak, A. N.; Miroshkin, F. Ya.;
 Petryanov-Sokolov, I. V.; Baamanov, P. I.; Farber, L. D.; Khalupnaya, L. I.

ORG: none

TITLE: An installation for aseptic preservation of liquid and puree-type foodstuffs in large storage tanks. Class 53, No. 174520

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 116

TOPIC TAGS: food technology, food product machinery, food sanitation

ABSTRACT: This Author's Certificate introduces: 1. An installation for aseptic preservation of liquid and puree-consistency food products in large storage tanks. The unit consists of interconnected sterilizer pipelines made according to Author's Certificate No. 168108, a vacuum cooler, hermetically sealed tanks equipped with locking devices made according to Author's Certificate No. 168109, and bacteriological filters. The unit is designed for continuous operation and for preventing admission of any unsterilized product. The unit is equipped with a discharge reservoir and with an intermediate collector connected to the reservoir and to the sterilizer. 2. A modification of this installation in which connections are simplified by using a disconnectable pipe between the hermetically sealed tanks and the vacuum cooler, and a portable pump with a flexible hose for unloading the food products from the tanks.

Card 1/2

UDC: 664.8.03

L 7028-66

ACC NR: AF5026830



Fig. 1. 1--sterilizer; 2--vacuum cooler; 3--hermetically sealed tanks; 4--locking devices; 5--bacteriological filters; 6--discharge reservoir; 7--intermediate collector; 8--disconnectable pipe; 9--portable pump

SUB CODE: GO,IX,LS/

SUBM DATE: 18March/

ORIS REF: 000/

OTM REF: 000

Card 2/2

FARBER, M.A.

Developmen t of myoplegia into progressive muscular dystrophy.
Zhur.nevr. i psikh. Supplement:24 '57. (MIRA 11:1)

1. Klinika nervnykh bolezney (zav. - prof. S.N.Davidenkov)
Leningradskogo ordena Lenina instituta usovershenstvovaniya vrachey
imeni S.M.Kirova i Narvskaya gorodskaya bol'nitsa (glavnyy vrach
T.V.Nantsev).
(MUSCULAR DYSTROPHY)

FARBER, M.A.

Treatment of diseases of the peripheral nervous system with
vitamin B₁₂. Sov.med. 22 no.6:64-68 Je '58 (MIRA 11:9)

1. Iz nevrologicheskogo otdeleniya (sav. M.A. Farber) Narvskoy
gorodskoy bol'nitsy (glavnyy vrach A.I. Blum).

(NERVES, PERIPHERAL, dis.
ther., vitamin B12 (Rus))
(VITAMIN B12, ther. use
peripheral NS dis. (Rus))

FARBER, M.A.

Importance of the study of the galvanic pain test in the diagnosis of
lumbosacral radiculitis. Vrach.delo no.7:759-760 JI '59.

(MIRA 12:12)

1. Nevrologicheskoye otdeleniye (zav. - M.A. Farber) Narvskoy gorod-
skoy bol'nitsy Estonskoy SSR.

(NERVES, SPINAL--DISEASES)

(PAIN)

FARBBER, M.A.; KOLOVSKIY, L.Ya. (Marva)

Case of abdominal aortic thrombosis diagnosed at the site of
bifurcation. Klin.med. 37 no.7:126-127 J1 '59. (MIRA 12:10)

1. Iz Narvskoy gorodskoy bol'nitsy (glavnyy vrach A.I.Blum).
(AORTA dis.)

FARBER, H.A. (Harva)

A case of polyn neuritis following carbon monoxide poisoning.
Kaz.med.zhur. 40 no.1:85 Ja-F '59. (MIRA 12:10)
(NEURITIS, MULTIPLE) (CARBON MONOXIDE--TOXICOLOGY)

FARBER, M.A. (Narva)

Vitamin B₁₂ in the clinical treatment of diseases of the nervous system; survey of the foreign literature. Klin.med. 38 no.9:19-27 S '60. (MIRA 13:11)

1. Iz nevrologicheskogo otdeleniya (zav. M.A. Farber) Narvskoy bol'nitsy (glavnyy vrach A.I. Blum).
(CYANOCOBALAMINE) (NERVOUS SYSTEM—DISEASES)

FARBER, M.A., podpolkovnik med. sluzhby

Formation of classes for sanitary training in units. Voen.-med.
zhur. no. 2:74 F '61. (MIRA 14:2)
(MILITARY HYGIENE—STUDY AND TEACHING)

FARBER, M.A.

Treatment of lumbosacral radiculitis by epidural infusions of
vitamin B₁₂. Zhur.nevr.i psikh. 61 no.2:291-293 '61.
(MIRA 14:6)

1. Nevrologicheskoye otdeleniye (zav. M.A.Farber) Narvskoy
gorodskoy bol'nitsy (glavnyy vrach A.I.Blum).
(CYANOCOBALAMINE) (NERVES, SPINAL DISEASES)

FARBER, M.A., kand. med. nauk (Narva)

Medicinal therapy of lumbosacral radiculitis; review of literature.
Klin. med. 41 no.9:32-36 S'63 (MIRA 17:3)

1. Iz nevrologicheskogo otdeleniya Narvskoy gorodskoy bol'nitsy
(glavnyy vrach A.I. Blum).

MEL'NIKOV, N.N.; VOL'FSON, L.G.; KUZNETSOVA, K.V.; SAPOZHKOVA, Yu.N.;
GAR, K.A.; GRANIN, Ye.F.; FARBER, M.S.

Insecticides based on hexachlorocyclopentadiene. [Trudy] NIUIF
no.164:8-11 '99. (MIRA 15:5)
(Cyclopentadiene)

POPOV, P.V.; ROSLAVTSEVA, S.A.; FARBER, M.S.

Stability of chlorophos. Zashch. rast. ot vred. 1 bol. 8
no.3:36 Mr '63. (MIRA 17:1)

1. Nauchno-issledovatel'skiy institut po udobreniyam i
insektofungitsidam.

FARBER, M.S.; ROSLAVTSEVA, S.A.; POPOV, P.V.

Stability of chlorophos solutions. Zh. mikrobiol. 40 no.7:
11-12 J1'63 (MIRA 17:1)

1. Nauchnogo instituta po udobreniyam i insektotsingitsidam
imeni Samoylova.

BOGDANOV, I.L., professor; FARBER, N.A., kandidat meditsinskikh nauk

Clinical aspects and diagnosis of virus influenza in scarlet fever
in children. *Pediatrics* no.6:45-50 N-D '54. (MLA 8:4)

1. Iz Kiyevskogo instituta infekts. bolezney AMN SSSR
(SCARLET FEVER, complications
influenza, diag. & ther.)
(INFLUENZA, in inf. and child
in scarlet fever, diag. & ther.)

FARBER, N.A., kand.med.nauk

Characteristics of jaundice in pregnant women. Sov.med. 25 no.12:
48-55 D '61. (MIRA 15:2)

1. Iz instituta virusologii imeni Ivanovskogo (dir. - prof. P.N.
Kosyakov, zav. klinikoy - prof. N.V.Sergeyev [deceased]) AMN SSSR
na base Moskovskoy klinicheskoy infektsionnoy bol'nitsy No.2
(glavnyy vrach A.M.Pyl'tsova).
(HEPATITIS, INFECTIOUS) (PREGNANCY, COMPLICATIONS OF)

FARBER, N.A., kand.med.nauk

Differential diagnosis and clinical characteristics of jaundice
in pregnant women. Akush.i gin. no.6:54-60 '61. (MIRA 14:12)

1. Iz kliniki virusnykh .zabolevaniy (zav. - prof. N.V. Sergiyev
[deceased]) Instituta virusologii imeni D.I. Ivanovskogo AMN SSSR
(dir. - prof. P.N. Kosyakov) na baze klinicheskoy infektsionnoy
bol'nitsy No.2 (glavnyy vrach A.M. Pyl'tsova).
(PREGNANCY, COMPLICATIONS OF) (HEPATITIS, INFECTIOUS)

FARBER, N. A., kand. med. nauk,

Some clinical correlations in Botkin's disease in pregnant
women. Akush. i gin. no.4:22-28 #62. (MIRA 15:7)

(HEPATITIS, INFECTIOUS) (PREGNANCY, COMPLICATIONS OF)

FARBER, N.A., kand.med.nauk

Controversial questions in the diagnosis and treatment of Botkin's disease in pregnancy; apropos of I.U.A. Romanov's and G.K. Kusa'inova's articles in "Voprosy okhrany materinstva in detseva" No.3, 1961.
Vop. okh. mat. i det. 7 no.3:64-68 Mr '62. (MIRA 15:5)

1. Iz klinicheskogo otdela (nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. A.F.Bilibin) Instituta virusologii imeni D.I. Ivanovskogo (dir. - prof. P.N.Kosyakov) AMN SSSR na baze klinicheskoy 'nfektsionnoy bol'nitsy No.2 (glavnyy vrach A.M.Pyl'tsova).
(HEPATITIS, INFECTIOUS) (PREGNANCY, COMPLICATIONS OF)

FARBER, N.A.

Acute and subacute liver dystrophy in pregnant women. Vop.med.
virus. no.9:229-239 '64. (MIRA 18:4)

YELIZAROV, N.N. (Moskva); FARBER, N.A. (Moskva)

Hemorrhagic syndrome in Botkin's disease in pregnancy. Vop.med.
virus. no.9:270-275 '64. (MIRA 18:4)

FARBER, N.A.; SINAYKO, G.A.; KOVREVA, T.S.; MIDRO, O.S.; ANDREYEVA, N.A.

Evaluation of the therapeutic action of dioron in Botkin's disease. Sov. med. 28 no.10:127-131 O '65. (MIRA 18:11)

1. Klinicheskiy otdel (zav.- dotsent Ye.S. Ketiladze, nauchnyy rukovoditel' - prof. A.F. Bilibin) Instituta virusologii imeni Ivanovskogo (dir.- prof. V.M. Zhlanov) AMN SSSR i Moskovskaya gorodskaya klinicheskaya infektsionnaya bol'nitsa No.82 (glavnyy vrach - kand. med. nauk A.V. Yeremyan), Moskva.

FARBER, S., kand.tekhn.nauk

Prestressed reinforced concrete construction elements with
plastic covered reinforcements. Bud.mat.i konstr. 2
no.1:35-41 P '60. (MIRA 13:6)
(Plastics) (Prestressed concrete) (Pipe, Concrete)

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

NABIYEV, M.N.; PALETSKIY, G.V.; ANISIMKIN, I.G.; REBENKO, M.; KALININ, Ye.P.;
TROFIMOV, S.M.; VURGAFT, G.V.; POPOV, V.S.; KOROL', P.Z.;
KULIK, A.A.; KAL'MAN, L.A.; FARBER, S.I.; MATVEYEVA, M.Ye.;
GAVRILOV, V.S.; KADYROV, V.M.; IL'YASOV, A.I.; YAKUBOV, S.G.;
PROSKURIN, M.P.; NESTERENKO, A.P.; DEZHIN, N.D.; KOCHEROV, V.,
red.; POPOV, V., red.; SALAKHUTDINOVA, A., tekhn. red.

[Chirchik, a city of major industrial chemical complexes]
Chirchik - gorod bol'shoi khimii. Tashkent, Gosizdat UzSSR,
1962. 82 p. (MIRA 16:6)

1. Chlen-korrespondent Akademii nauk UzSSR (for Nabiyev).
2. Rabotniki Chirchikskogo elektrokhimkombinata (for all
except Nabiyev, Kocherov, Popov, V., Salakhutdinova).
(Chirchik—Chemical plants)

FARBER, S.R.

Ways of improving the smoothness of cardboard. Bum.prom.
38 no.9:20 S '63. (MIRA 16:11)

1. Glavnyy inzh. fabriki "Belarus".

FARBER, V.

Hydraulic stand for riveting brake shoes. Avt.transp.
40 no.12:43 D '62. (MIRA 15:12)
(Power tools)

FARBER, V.

Eighty suggestions in four years. Avt.transp. 41 no.1:6 Ja '63.
(MIRA 16:2)

1. Konstruktor 5-y avtobazy tresta "Mosavtozheldor" Glavnogo
upravleniya avtomobil'nogo transporta Moskovskogo gorodskogo
soveta deputatov trudyashchikhsya.
(Moscow—Transportation, Automotive—Technological innovations)

FARBER, V. B., LT COL

PA 53T74

USMR/Medicine - Training
Medicine - Biography

Nov 1947

"S. P. Botkin, Founder and Organizer of the School
of National Scientific Clinical Medicine," Lt Col V.
B. Farber (Med), 12 pp

"Voen-Medits Zhurnal" No 11

Historical biography of Botkin, founder of Russian
school for clinical therapy. Presents data for
19th century.

LC

53T74

FARBER, V. B.
25812

Vliyaniye Povyshennogo Atmosfernogo Davleniya Na Genatopoez. Vracheb.
Delo, 1948, No. 6, STB. 467-70.

SO: IETOPIS NO. 30, 1948

6358. Farber V.B.

Influence of increased atmospheric pressure on haematopoiesis Klinicheskaya
Meditsina, Moscow 1948, 26/1 (46--51)

The effect of increased atmospheric pressure on haematopoiesis was investigated in five healthy men aged 19 to 32 years. There was a control period of 26 days before the experiments during which blood counts and sternal marrow smears were studied. Subjects were exposed to an oxygen pressure of 1 atmosphere at intervals of four to seven days, and later to an oxygen pressure of 2 to 2.3 atmospheres. Subjects at rest in a pressure chamber breathed oxygen from a Douglas bag. After five hours' exposure of 1 atmosphere, there was no change in erythropoiesis. There was myelocytic reaction in the bone marrow and a slight increase in neutrophile cells in the peripheral blood for about eight hours after the experiment. Thrombocytes were not affected. After similar exposure to 2.3 atmospheres oxygen pressure, there was an insignificant depression of erythropoiesis and of pro-erythroblasts in the marrow, for 24 hours. Neutrophils slightly increased in the peripheral blood and neutrophile myelocytes and meta-myelocytes in the marrow for about ten hours. After daily exposure to 1 atmosphere, oxygen pressure for 22 days followed by 2.3 atmospheres for 12 days, there was a significant fall in erythrocytes with hypochromia and reticulocytosis. Erythroblasts and pro-erythroblasts became less common in the marrow. There was a tendency to leucopenia, lymphocytosis, and thrombocytopenia. Myeloid tissue in the bone marrow was depressed and a plasmocytic reaction appeared. Two days after the end of the experiment the blood picture returned to normal. In these experiments leucocytes responded to change in atmospheric pressure before erythrocytes. 17 references. Gilder--(World Medical Abstracts)

Section II Vol. 1.² No. 7--12

FAREER, V. B.

29250 I. P. Pavlov v klinike S. P. Botkina. Klinich. meditsina, 1949, No 9, s.
53-61, s portr.

SO: Letopis' Zhurnal'nykh Statey. Vol. 39, Moskva, 1949

FARMER, V. L.

Farter, V. E. - "Mikhail Innokent'yevich Arinkin," (Therapeutist 1876 - 1948, an obituary),
Sbornik trudov (Voen.-med. akad. im. Kirova), Vol. XLIII, 1949, p. 3-12 with portrait,
- Bibliog: "List of the scientific work of Professor K. I. Arinkin," 79 items

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949.)

FARBER, V. V.

Yegorov, P. I. and Farber, V. V. - "Significant occurrences during one's lifetime in the study of brain tone according to the method of M. I. Arin'in," Sbornik trudov (Voen.-med. akad. im. Kirova), Vol. XLIII, 1949, p. 13-24

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949.)

FARBER, V. L.

Farber, V. B. - "The ascorbic acid content in urine, blood plasma and the plasmothoracic spot in healthy people," (By Professor Lapin's micromethod), Sbornik trudov (Voen.-med. akad. im. Kirova), Vol. XLIII, 1949, p. 144-77, - bibliog: 19 items

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949.)

FARBER, V.B.

L.V.Popov, his contribution to the progress of Russian internal medicine. Klin.med.,Moskva 18 no.10:74-79 Oct 50. (CJML 20:4)

1. Leningrad.

F. K. BER, V. B.

FARBER, V. B.

Normal myelogram. Ter. aridn. 22:3, May-June 50. p. 68-72

1. Leningrad.

CHL 19, 5, Nov., 1950

1. FARBER, V. B.
2. USSR (600)
4. Botkin, Sergei Petrovich, 1832-1889
7. S. P. Botkin, the foremost pedagogue of Russian clinical medicine; 120th anniversary of his birth. Klin.med. 30 no. 9, 1952.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

FARBER, V.B.

YEGOROV, A.P.; BOCHKAREV, V.V. [authors]; FARBER, V.B., doktor meditsinskikh nauk [reviewer].

"Homopoiesis and iontophoretic radiation." A.P.Egorov, V.V.Bochkarev. Reviewed by V.B.Farber. Terap.arkh. 25 no.3:83-86 My-Je '53. (MLRA 6:9)
(Radiation) (Blood) (Egorov, A.P.) (Bochkarev, V.V.)

FARMER, V. B. professor

Stimulation of hemopoiesis in acute radiation sickness. Fed. res.
2 no. 3:40-47 Hy-Ja '57. (MLPA 10:16)

(RADIATION SYNDROME, blood in
stimulation of hemopoiesis)
(HEMOPOIESIS
stimulation in radiation synd.)

EXCERPT: MEDICA Sec 14 Vol 13/5 Radiology May 59

22. THE STIMULATION OF HAEMOPOIESIS IN ACUTE RADIATION SICKNESS (Russian text) - Farber V. B. - VOEN.-MED. ZH. 1957. 5 (8-12)
 sodium nucleinate (0.3 mg.), folic acid (20 mg.), ascorbic acid (75 mg.), pyridoxine (4 mg.), and hepatocerin (10 ml.) were given to dogs twice a day after 9 hr. irradiation with 600 r. from the period of culmination of the illness. The application of haemostimulants did not improve the peripheral blood count, the bone marrow, or the clinical course of the disease. In the period of declining haemopoiesis, general hygienic measures and substitution therapy have to be used. At the first signs of recovery of haemopoiesis in severe radiation sickness, administration of haemostimulants has to be started at an increasing rate, with the peripheral blood being regularly checked. In radiation sickness of medium severity stimulant therapy must be given from the beginning of the latent period of the disease, when the phase of stimulation of granulopoiesis terminates and the gradual development of leucopenia starts. In mild radiation sickness it is advisable to stimulate haemopoiesis immediately when a leucopenic or thrombopenic reaction appears. The less marked the disturbances of haemopoiesis are, the more marked is the effect of the haemostimulating agents. (S)